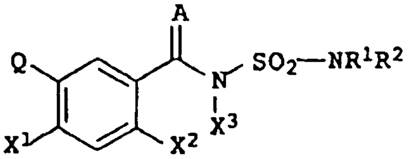
Claims:

1. Uracil substituted phenyl sulfamoyl carboxamides of the formula I



I,

wherein the variables have the following meanings:

A oxygen or sulfur;

X^1 hydrogen, halogen or C_1-C_4-alkyl;

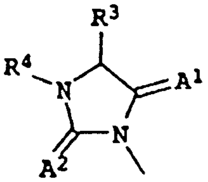
X^2 hydrogen, cyano, CS-NH_2, halogen, C_1-C_4-alkyl or C_1-C_4-haloalkyl;

X^3 hydrogen, cyano, C_1-C_6-alkyl, C_1-C_6-alkoxy-alkyl, C_3-C_7-cycloalkyl, C_3-C_6-alkenyl, C_3-C_6-alkynyl or optionally substituted benzyl;

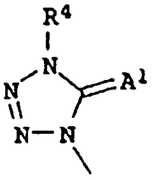
R^1 and R^2 independently of one another hydrogen, halogen, OR^{48}, C_1-C_{10}-alkyl, C_2-C_{10}-alkenyl, C_3-C_{10}-alkynyl, C_3-C_7-cycloalkyl, phenyl, benzyl or C_5-C_7-cycloalkenyl, whereas each of the last-mentioned 7 groups can be substituted with any combination of one to six halogen atoms, one to three C_1-C_6-alkoxy groups, one or two C_1-C_8-haloalkoxy groups, one or two cyano groups, one or two C_3-C_7-cycloalkyl groups, one or two $C(O)R^{49}$ groups, one or two CO-OR^{50} groups, one or two CO-SR^{51} groups, one or two CO-$NR^{52}R^{53}$ groups, one to three OR^{54} groups, one to three SR^{54} groups, one optionally substituted four to 10-membered monocyclic or fused bicyclic heterocyclic ring, one or two optionally substituted phenyl groups or one or two optionally substituted benzyl groups,

or R^1 and R^2 together with the atom to which they are attached form a 3- to 7-membered heterocyclic ring;

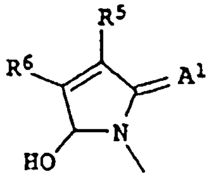
Q is selected from



Q1



Q2



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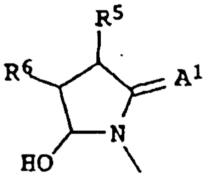
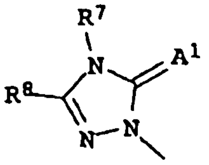


Q4



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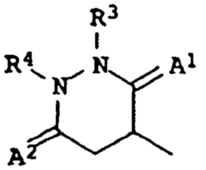

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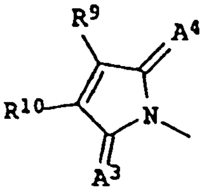
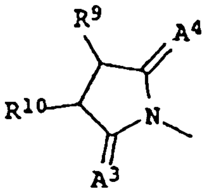


Q7



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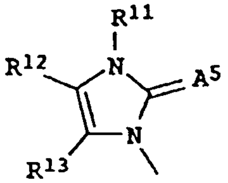
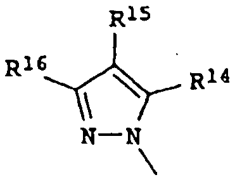


Q9



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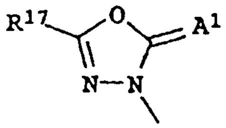

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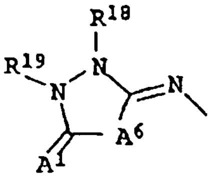

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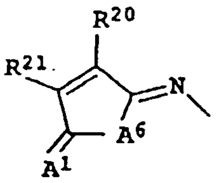

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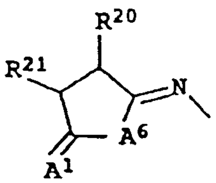

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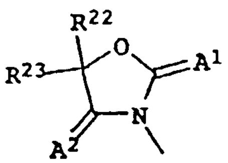

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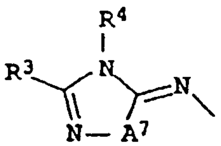

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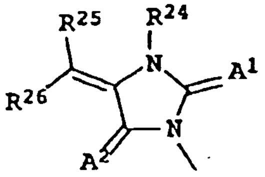
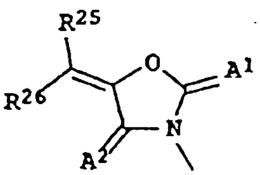


Q17



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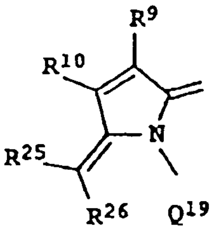

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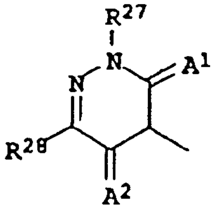
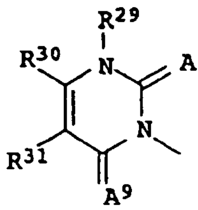
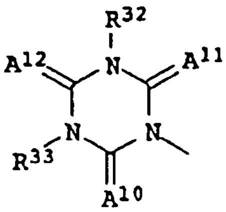
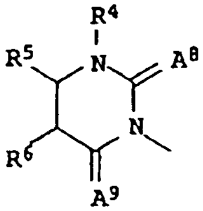
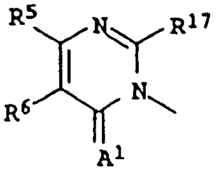


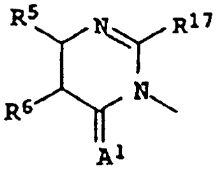
Q20

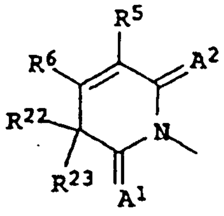

Q^{21}

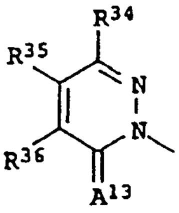

Q^{22}

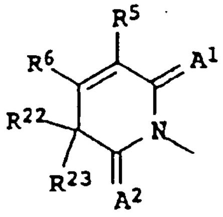

Q^{23}

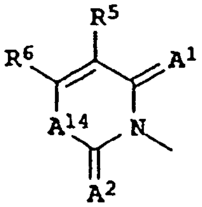

Q^{24}

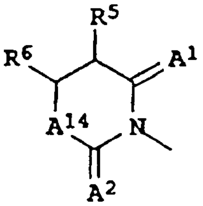

Q^{25}

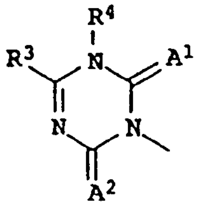

Q^{26}

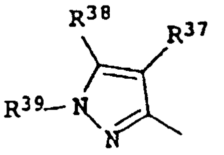

Q^{27}

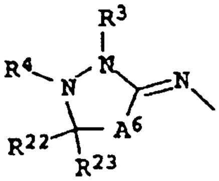

Q^{28}

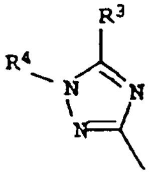

Q^{29}

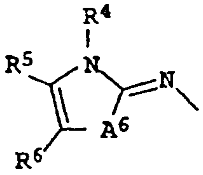

Q^{30}

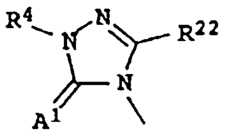

Q^{31}

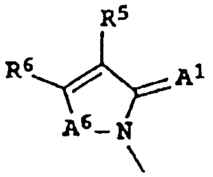

Q^{32}

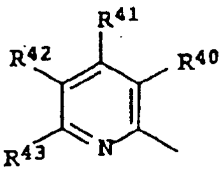

Q^{33}

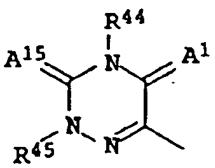

Q^{34}

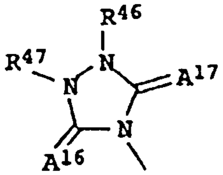

Q^{35}


Q^{36}


Q^{37}


Q^{38}


Q^{39}


Q^{40}

wherein

A^1 to A^{17} are each independently oxygen or sulfur;

R^3, R^4, R^7, R^8, R^{11}, R^{12}, R^{18}, R^{19}, R^{27}, R^{29}, R^{32}, R^{33}, R^{38}, R^{39}, R^{44}, R^{45}, R^{46} and R^{47} are each independently hydrogen, cyano, amino, C_1-C_6-alkyl, C_1-C_6-haloalkyl, C_1-C_6-haloalkoxy, C_3-C_7-cycloalkyl, C_2-C_6-alkenyl, C_2-C_6-haloalkenyl, C_3-C_6-alkynyl, benzyl, OR^{55}, C_1-C_3-cyanoalkyl, or

R^3 and R^4, R^7 and R^8, R^{11} and R^{12}, R^{18} and R^{19} or R^{46} and R^{47} may be taken together with the atoms to which they are attached to represent a four- to seven-membered ring, optionally interrupted by oxygen, sulfur or nitrogen and optionally substituted with one or more halogen or C_1-C_4-alkyl groups;

R^5, R^6, R^9, R^{10}, R^{15}, R^{16}, R^{20}, R^{21}, R^{30}, R^{31}, R^{35}, R^{36}, R^{41}, R^{42} and R^{43} are each independently hydrogen, C_1-C_6-alkyl, C_1-C_6-haloalkyl, C_3-C_7-cycloalkyl, C_2-C_6-alkenyl, C_2-C_6-haloalkenyl, C_3-C_6-alkynyl, OR^{56}, $S(O)_nR^{57}$, O-SO_2-R^{57}, $NR^{58}R^{59}$ or

R^5 and R^6, R^9 and R^{10}, R^{15} and R^{16}, R^{20} and R^{21} or R^{30} and R^{31} may be taken together with the atoms to which they are attached to represent a four- to seven membered ring optionally substituted with one or more halogen or C_1-C_4-alkyl groups;

R^{13}, R^{14}, R^{22}, R^{23}, R^{25} and R^{26} are each independently hydrogen, halogen or C_1-C_6-alkyl;

R^{17}, R^{28}, R^{34}, R^{37} or R^{40} are each independently hydrogen, halogen, C_1-C_6-alkyl, C_1-C_6-haloalkyl, C_3-C_7-cycloalkyl, C_2-C_6-alkenyl, C_2-C_6-haloalkenyl, C_3-C_6-alkynyl, OR^{60} or SR^{61};

R^{24} is hydrogen, C_1-C_4-alkyl, C_1-C_4-haloalkyl, C_2-C_4-alkenyl, C_3-C_4-alkynyl, C_1-C_4-haloalkoxy or amino;

R^{48}, R^{49}, R^{50}, R^{51}, R^{52}, R^{53}, R^{54}, R^{55}, R^{56}, R^{57}, R^{58}, R^{59}, R^{60} and R^{61} are independently of one another hydrogen, C_1-C_6-alkyl, C_1-C_6-haloalkyl, C_3-C_7-cycloalkyl, C_2-C_6-alkenyl, C_3-C_6-alkynyl, optionally substituted phenyl or optionally substituted benzyl;

n is zero, 1 or 2;

and the agriculturally useful salts of the compounds I.

2. The compound defined in claim 1, wherein Q is selected from Q^5, Q^7, Q^{21}, Q^{22}, Q^{27}, Q^{32}, Q^{38}, Q^{39} and Q^{40}.

3. 2-Chloro-5-[3,6-dihydro-3-methyl-2,6-dioxo-4-(trifluoromethyl)-1(2H)-pyrimidinyl]-N-(dimethylsulfamoyl)-4-fluorobenzamide,
2-chloro-5-[3,6-dihydro-3-methyl-2,6-dioxo-4-(trifluoromethyl)-1(2H)-pyrimidinyl]-N-[(ethyl)propylsulfamoyl)]-4-fluorobenzamide,
2-chloro-5-[3,6-dihydro-3-methyl-2,6-dioxo-4-(trifluoromethyl)-1(2H)-pyrimidinyl]-N-(sec.-butylsulfamoyl)-4-fluorobenzamide,
2-chloro-5-[3,6-dihydro-3-methyl-2,6-dioxo-4-(trifluoromethyl)-1(2H)-pyrimidinyl]-N-(tert.-butylsulfamoyl)-4-fluorobenzamide,
2-chloro-5-[3,6-dihydro-3-methyl-2,6-dioxo-4-(trifluoromethyl)-1(2H)-pyrimidinyl]-N-[(ethyl)methylsulfamoyl)]-4-fluorobenzamide,
2-chloro-5-[3,6-dihydro-3-methyl-2,6-dioxo-4-(trifluoromethyl)-1(2H)-pyrimidinyl]-N-[(methyl)propylsulfamoyl)]-4-fluorobenzamide,
2-chloro-5-[3,6-dihydro-3-methyl-2,6-dioxo-4-(trifluoromethyl)-1(2H)-pyrimidinyl]-N-(diethyl)sulfamoyl)-4-fluorobenzamide,
2-chloro-5-[3,6-dihydro-3-amino-2,6-dioxo-4-(trifluoromethyl)-1(2H)-pyrimidinyl]-N-[(methyl)isopropylsulfamoyl)]-4-fluorobenzamide,
2-chloro-5-[3,6-dihydro-3-methyl-2,6-dioxo-4-(trifluoromethyl)-1(2H)-pyrimidinyl]-N-[(sec.-butyl)methylsulfamoyl)]-4-fluorobenzamide,
2-chloro-5-[3,6-dihydro-3-methyl-2,6-dioxo-4-(trifluoromethyl)-1(2H)-pyrimidinyl]-N-[(methyl)phenylsulfamoyl)]-4-fluorobenzamide,
2-chloro-5-[3,6-dihydro-3-methyl-2,6-dioxo-4-(trifluoromethyl)-1(2H)-pyrimidinyl]-N-[(methyl)isopropylsulfamoyl)]-4-fluorobenzamide,
2-chloro-5-[3,6-dihydro-3-methyl-2,6-dioxo-4-(trifluoromethyl)-1(2H)-pyrimidinyl]-N-[(n-butyl)methylsulfamoyl)]-4-fluorobenzamide.
N'-[[2-chloro-4-fluoro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]-benzoyl]]-N-isopropyl-N-methylsulfamide,
N'-{2-chloro-4-fluoro-5-(5,6,7,8-tetrahydro-3-oxo-1,2,4-triazolo[4,3-a]pyridin-2(3H)-yl)-benzoyl}-N-isopropyl-N-methylsulfenamide,
N'-[2-chloro-5-(3,5-dimethyl-2,6-dioxo-4-thioxo-1,3,5-triazinan-1-yl)-4-fluorobenzoyl]-N-isopropyl-N-methylsulfamide,

N'-[2-chloro-4-fluoro-5-(5-trifluoromethylpyridazon-3-on-2-yl)-benzoyl]-N-isopropyl-N-methylsulfenamide,
4-chloro-3-[4-chloro-2-fluoro-5-(N-methyl-N-isopropyl)-sulfamoylcarboxamidophenyl]-5-difluorormethoxy-1-methyl-1H-pyrazole,
N'-[[2-chloro-5-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-4-fluorobenzoyl]]-N-isopropyl-N-methylsulfamide and
8-(5'-N-isopropyl-N-methylsulfamoylcarboxamido-4'-chloro-2'-fluorophenyl)-4-oxo-7,9-dioxo-1,2,8-triaza(4.3.0.)nonane.

4. A herbicidal composition, comprising a herbicidally effective amount of at least one compound of the formula I or of an agriculturally useful salt of I as defined in claim 1, and at least one inert liquid and/or solid carrier and, if desired, at least one surfactant.

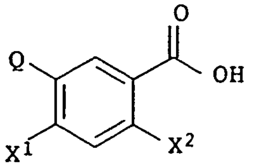
5. A composition for the desiccation and/or defoliation of plants, comprising such an amount of at least one compound of the formula I or of an agriculturally useful salt of I, as defined in claim I, that it acts as a desiccant and/or defoliant, and at least one inert liquid and/or solid carrier and, if desired, at least one surfactant.

6. A method of controlling undesirable vegetation, which comprises allowing a herbicidally active amount of at least one compound of the formula I or of an agriculturally useful salt of I, as defined in claim 1, to act on plants, their environment or on seed.

7. A method for desiccation/defoliation of plants, which comprises allowing such an amount of at least one compound of the formula I or an agriculturally useful salt of I, as defined in claim 1, to act on plants that it acts as a defoliant and/or desiccant.

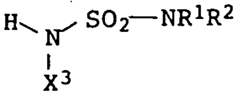
8. A method as claimed in claim 8, wherein cotton is treated.

9. A process for the preparation of a compound of formula I as defined in claim 1, which process comprises reacting a benzoic acid derivative of the formula II



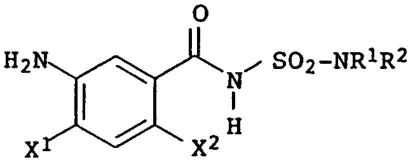
II,

wherein Q, X^1 and X^2 are as defined in claim 1, optionally in the presence of a coupling agent, or the corresponding acid chloride of II, with a sulfamide of the formula III

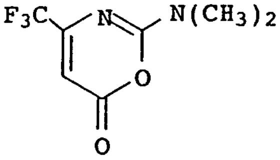

III,

wherein X^3, R^1 and R^2 are as defined in claim 1.

10. A process for the preparation of a compound of formula I as defined in claim 1, where A is oxygen, X^3 is hydrogen, Q is Q^{21}, A^8 & A^9 are oxygen and R^{29} is hydrogen, which process comprises reacting an aniline intermediate VI

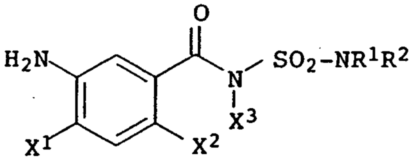

VI,

wherein X^1, X^2, R^1 and R^2 are as defined in claim 1, with an oxazinone compound of the formula VII

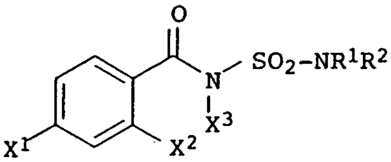

VII,

optionally followed by alkylation and hydrolysis.

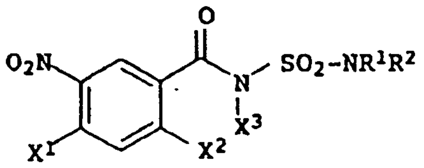
11. A process for the preparation of a compound of formula VI


VI,

wherein X^1, X^2, X^3, R^1 and R^2 are as defined in claim 1, which process comprises treating a sulfamoyl carboxamide X


X,

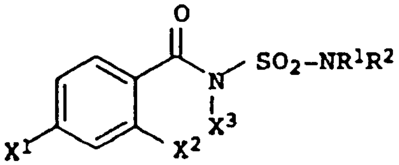
with a nitration reagent to give the corresponding nitrated compound XI



XI,

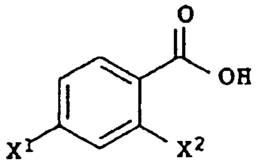
and subsequently reducing the nitro group with a transition metal under acidic conditions or with a complex hydride.

12. A process for the preparation of a sulfamoyl carboxamide X



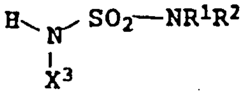
X,

wherein X^1, X^2, X^3, R^1 and R^2 are as defined in claim 1, which process comprises reacting a benzoic acid IX



IX,

optionally in the presence of a coupling agent, or the corresponding acid chloride of IX, with a sulfamide of the formula III



$$H-N(X^3)-SO_2-NR^1R^2$$

III.

13. The method according to claim 6 wherein the compound is applied in the presence of a crop.

14. The method according to claim 13 wherein the crop is a cereal crop or a leguminous crop.

15. The method according to claim 14 wherein the crop is corn, wheat or rice.